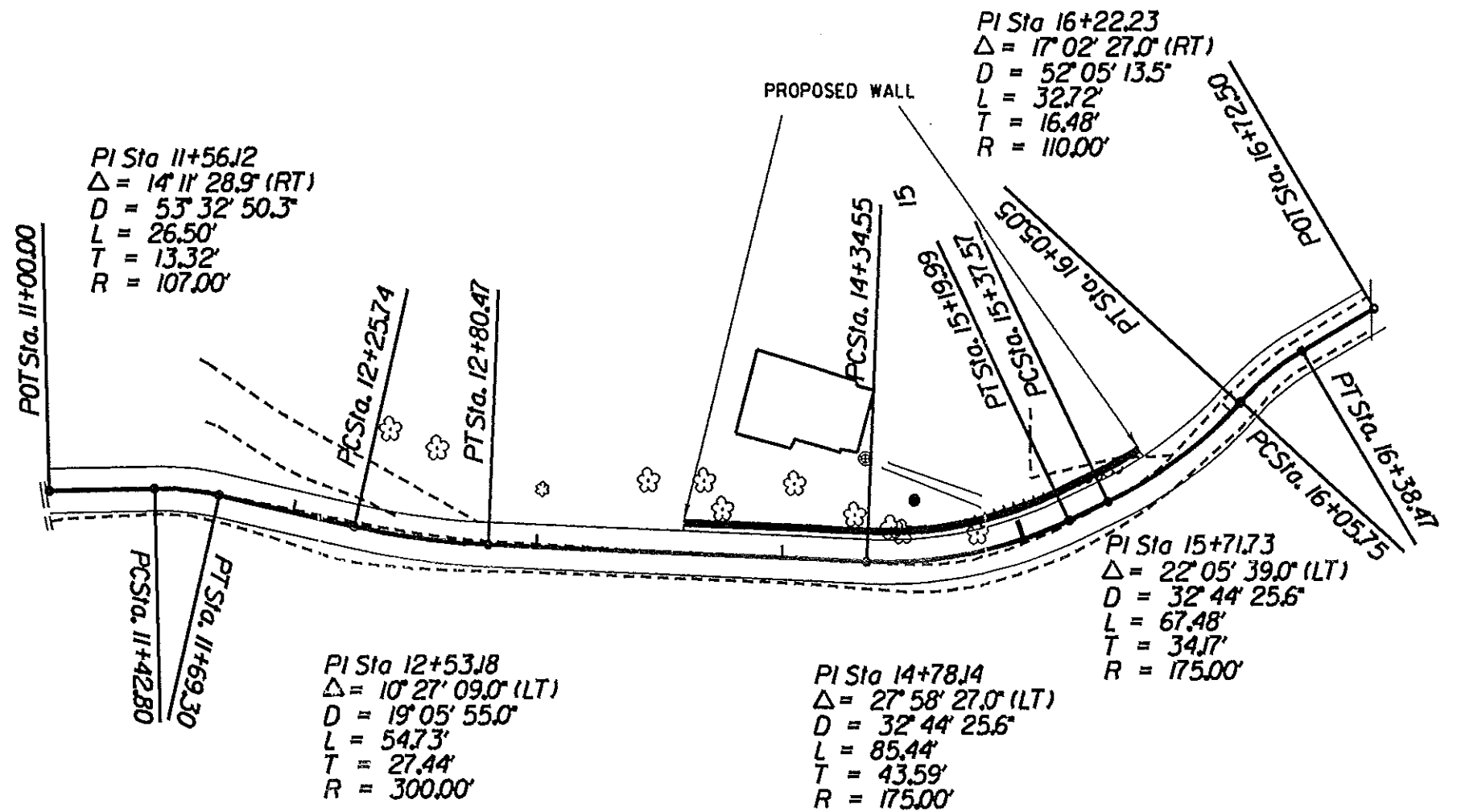
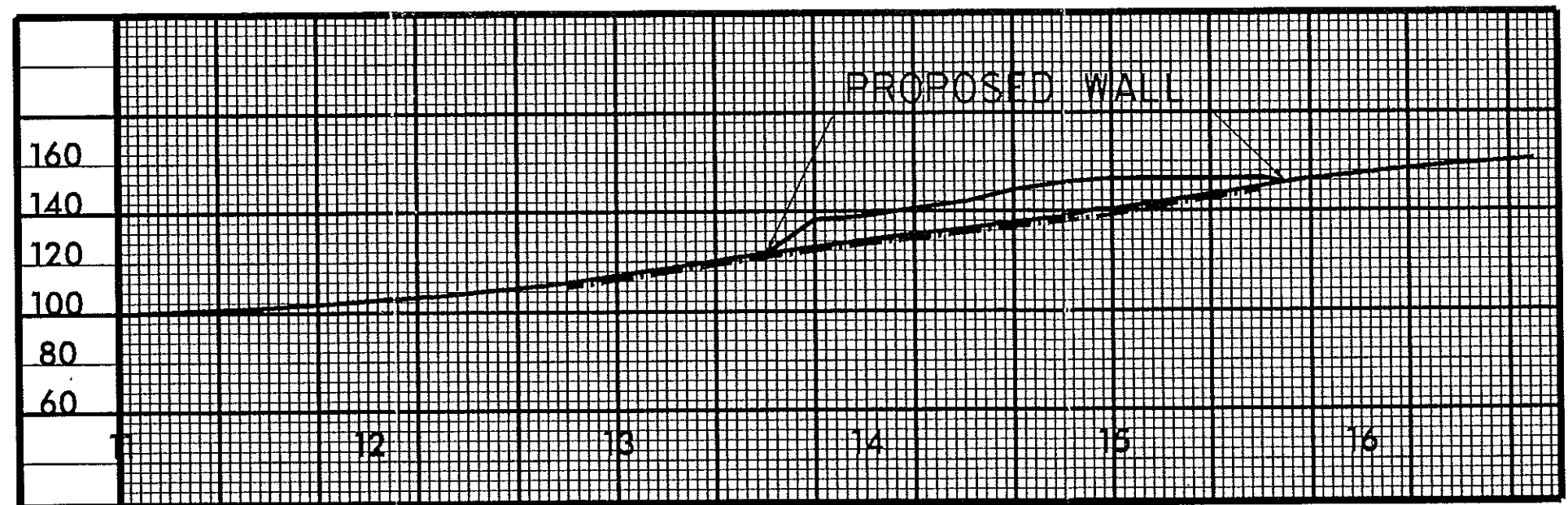


SR 1369 JACKSON COUNTY  
"LOWER NORTH FORK ROAD"

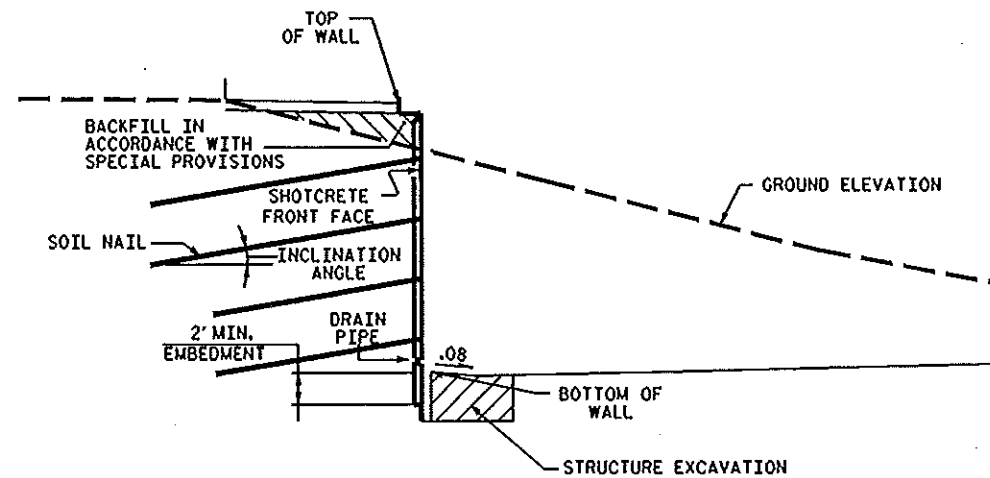


SOIL NAIL WALL ELEVATIONS				
STATION -L-	OFFSET TO FACE OF WALL	BOTTOM OF WALL	FINISHED RDWY GRADE AT FACE OF WALL	TOP OF WALL
12+80.00	12.500 LT	EL. 109.7	EL. 111.7	EL. 115.7
13+00.00	12.500 LT	EL. 112.7	EL. 114.7	EL. 120.0
13+20.00	12.500 LT	EL. 115.7	EL. 117.7	EL. 127.6
13+40.00	12.500 LT	EL. 118.7	EL. 120.7	EL. 130.5
13+60.00	12.500 LT	EL. 121.7	EL. 123.7	EL. 134.0
13+80.00	12.500 LT	EL. 124.3	EL. 126.3	EL. 136.8
14+00.00	12.500 LT	EL. 126.8	EL. 128.8	EL. 138.2
14+20.00	12.500 LT	EL. 129.2	EL. 131.2	EL. 141.2
14+40.00	12.500 LT	EL. 131.4	EL. 133.4	EL. 144.0
14+60.00	12.500 LT	EL. 133.7	EL. 135.7	EL. 148.6
14+80.00	12.500 LT	EL. 136.1	EL. 138.1	EL. 151.6
15+00.00	12.500 LT	EL. 138.4	EL. 140.4	EL. 153.0
15+20.00	12.500 LT	EL. 141.9	EL. 143.9	EL. 153.2
15+40.00	12.500 LT	EL. 145.1	EL. 147.1	EL. 153.2
15+60.00	12.500 LT	EL. 148.3	EL. 150.3	EL. 153.4



# NOTES

- THE CONTRACTOR SHALL SUBMIT COMPLETE WORKING DRAWINGS/SHOP PLANS, ERECTION PLANS AND DESIGN CALCULATIONS FOR REVIEW AND APPROVAL PRIOR TO BEGINNING THE "SOIL NAIL RETAINING WALL", SEE SOIL NAIL RETAINING WALLS SPECIAL PROVISION.
- THE SERVICE LIFE FOR DESIGN IS 100 YEARS.  
USE THE FOLLOWING VALUES FOR WALL DESIGN:  
A. SOIL ABOVE EL ----- (INCLUDING FILL):  
 $\gamma = 120 \text{ pcf}$ ,  $\phi = 30^\circ$ ,  $c = 0$   
B. SOIL BELOW EL -----:  
 $\gamma = 60 \text{ pcf}$ ,  $\phi = 30^\circ$ ,  $c = 0$ .
- THE MINIMUM EMBEDMENT OF THE SHOTCRETE FACE IS 2 FEET.
- FOR DESIGN CRITERIA AND DETAILS, SEE SOIL NAIL RETAINING WALLS SPECIAL PROVISION.
- PLANS SUBMITTED FOR REVIEW SHALL INCLUDE THE FOLLOWING: PLAN VIEW, ELEVATION VIEWS, TYPICAL SECTIONS, AND OBSTRUCTION AVOIDANCE DETAILS.
- THE OFFSET FOR WALL LAYOUT TO FRONT FACE OR BACK FACE OF WALL NEEDS TO BE GIVEN WITH STATIONING INCREASING FROM LEFT TO RIGHT ON PLAN SHEETS.
- RELOCATION OF ANY UTILITIES SHALL BE COMPLETE PRIOR TO CONSTRUCTION OF THE RETAINING WALL. A SEPTIC TANK AND DRAIN FIELD EXIST BEHIND THE WALL. THE LOCATION OF THE SEPTIC TANK AND DRAIN FIELD SHALL BE CONFIRMED IN THE FIELD PRIOR TO THE BEGINNING OF CONSTRUCTION. THE SOIL NAIL WALL DESIGN MUST ACCOUNT FOR THIS AND PROVIDE NAIL LOCATIONS THAT DO NOT CONFLICT WITH THE SEPTIC TANK AND DRAIN FIELD.
- DRAINAGE SHALL BE AWAY FROM THE WALL AT THE TOP AND BOTTOM. THE SOIL NAIL RETAINING WALLS SHALL BE DESIGNED TO MEET ALL THE CRITERIA OF THE LATEST VERSION OF AASHTO ALLOWABLE STRENGTH DESIGN STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND ITS INTERIMS, THE FHWA MANUAL FOR DESIGN & CONSTRUCTION OF SOIL NAIL WALLS, REPORT NO. FHWA-SA-96-069, THE SPECIAL PROVISIONS AND THE PLANS.
- THE GLOBAL STABILITY OF THE WALL SHALL BE ANALYZED TO ENSURE THAT THE WALL WILL FUNCTION AS INTENDED.
- ALL STRUCTURE EXCAVATION AND BACKFILL NECESSARY FOR THE CONSTRUCTION OF THE SOIL NAIL RETAINING WALL WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE WALL.



EXAMPLE SECTION THROUGH WALL 2

PROJECT NO. \_\_\_\_\_  
 \_\_\_\_\_ COUNTY  
 STATION: \_\_\_\_\_

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SOIL NAIL RETAINING  
 WALL DETAILS

DRAWN BY : A D SHAM DATE : 05-2003  
 CHECKED BY : E H WILLIAMS DATE : 05-2003

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			10/2 SHEETS
2			4			